PLR (Plastic Lithium Rechargeable) Batteries Using Nanoscale Materials: A Convenient Electrical Energy Power for the Future?

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This communication describes the synthesis of: (i) non toxic and low cost nanocrystalline electrode materials which can be advantageo usly prepared at low temperature; (ii) highly conductive electrolyte membranes formed by the nano-encapsulation within a poly (acrylonitril e)-based polymer matrix of a solution of LiPF6 in organic solvants. The performances of rechargeable PLR (Plastic Lithium Rechargeable) b atteries using the above mentioned components are presented.

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